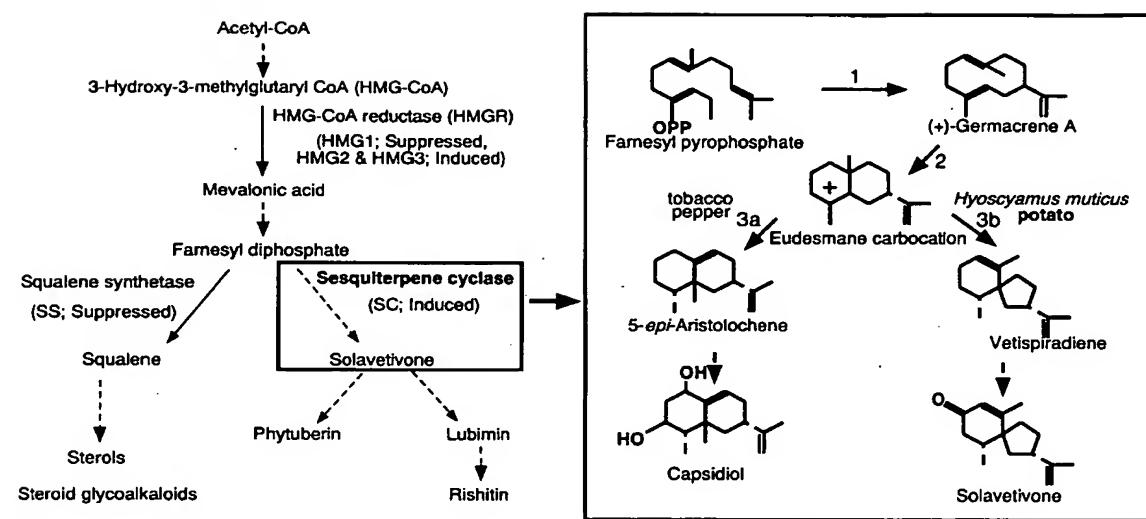


Fig.1

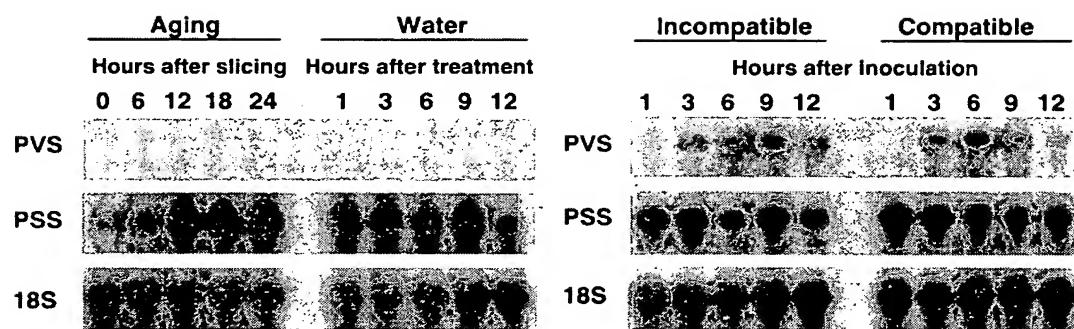


10/537094

P0206402

2/32

Fig.2



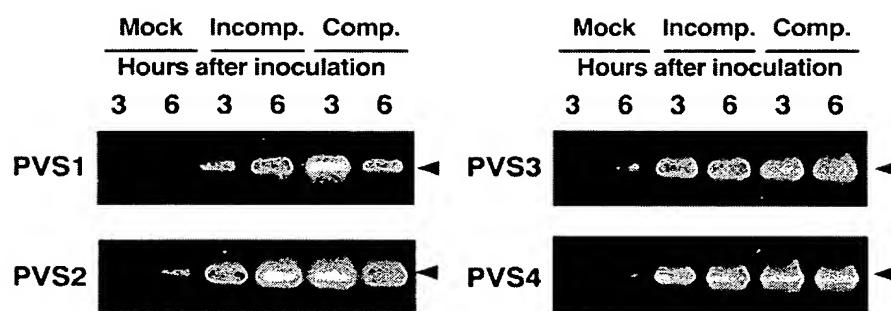
BEST AVAILABLE COPY

10/537094

P0206402

3/32

Fig.3



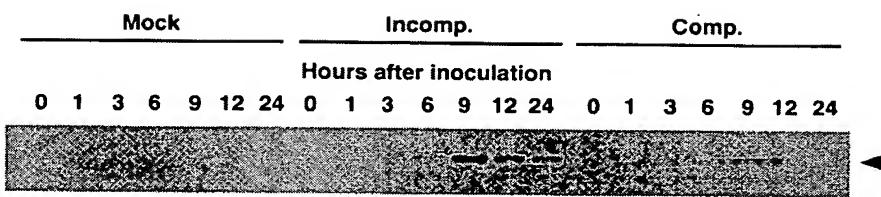
BEST AVAILABLE COPY

10/537094

P0206402

4/32

Fig.4



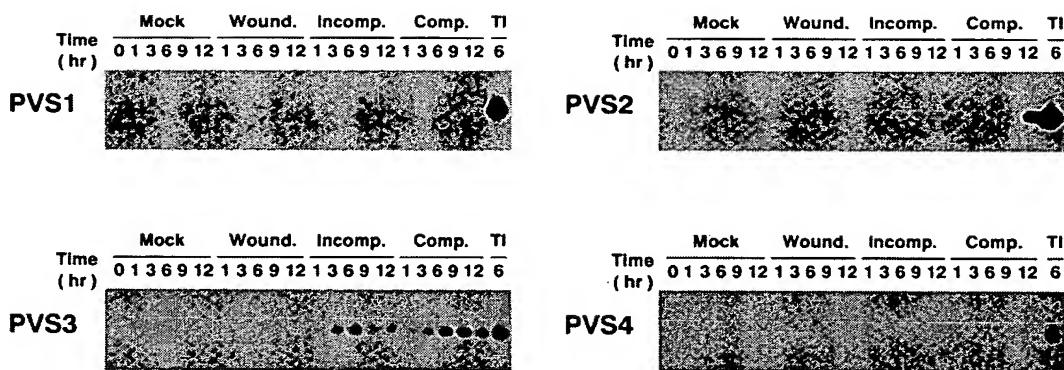
BEST AVAILABLE COPY

10/537094

P0206402

5/32

Fig.5



BEST AVAILABLE COPY

BEST AVAILABLE COPY

10/537094

P0206402

6/32

Fig. 6

Fig. 7

773	CCTTGAGCAGTCTCTCCATAAGAGCATTCAGAGTCGAGACGCCACTTCATCTCCAT	832
198	L E Q S L H K S I P R V E T R Y F I S I	217
833	CTACAGAAGAGGGAGGAATTAAAGAACATGATGTGTTGCTCGATTGCAAATTGGATTACAA	892
218	Y E E E E F K N D V L L R F A K L D Y N	237
893	CTTACTCCAGATGTTGCACAAACACGAACCTTAGTGAAGTATCAAGgtatacagatgttt	952
238	L L Q M L H K H E L S E V S R	252
953	aagttgaattaaaaatactagtataaaatttttgtttagttaatttctaagattggtagtac	1012
1013	ttattttgttagGTGGTGGAAAGATTGGATTTGTGACAACGCCATATGCTAGGGAT	1072
253	W W K D L D F V T T L P Y A R D	268
1073	AGAGCAGTGGAAATGTTACTTTGGACGATGGGAGTGTATGCTGAACCTCAATACTCTCAG	1132
269	R A V E C Y F W T M G V Y A E P Q Y S Q	288
1133	GCTCGTGTCACTCTTGCAAAAGACTATAGCAATGATTGCTAGTAGATGACACATTGAT	1192
289	A R V I L A K T I A M I S I V D D T F D	308
1193	GCTTATGGAAATAGTAAAAGAACATTGAGGTCTACACCGATGCCATACAAAGgtatggactt	1252
309	A Y G I V K E L E V Y T D A I Q R	325
1253	gcctctccaaacagttcatggattttattagacggaaacttactaaatctttctgtttt	1312
1313	attagGTGGATATTAGTCAAATGATCGACTCCAGAACATGAAAGTTAGTTAGTTAAAG	1372
326	W D I S Q I D R L P E Y M K V S F K	343
1373	GCTCTTTGGATCTCTATGAAGATTATGAAAAGGAGTTGTCAAAGGATGGCAGATCCGAT	1432
344	A L L D L Y E D Y E K E L S K D G R S D	363
1433	GTTGTCCACTACGCCAAAAGAACAGtaggactcaactgattctattaaaaacacttgta	1492
364	V V B Y A K E R	371
1493	ttagccattatactattttttattatacataattagatctgttatgggatattgtgttg	1552
1553	aatgtttgtggttctgttaacagATGAAGGAGATTGTGAGAAACTATTTGTAGAAG	1612
372	M K E I V R N Y F V E	382
1613	CAAAGTGTTCATTGGGGATATATGCCGCTGTTCTGAGTATCTAGCAATGCAATTAG	1672
383	A K W F I E G Y M P P V S E Y L S N A L	402
1673	CTACCACACATATTACTGCTAACTACAAACATCTATTGGGAGTGAAGTCAGCAACAA	1732
403	A T S T Y L L T T T S Y L G V K S A T	422
1733	AGGAAGATTGGATGGCTACGAAACCTAAATTCTTGAAGCCAATGTGACATTAT	1792
423	K E D F E W L A T N P K I L E A N V T L	442
1793	GCCGAGTTGTGATGACATAGCAACGTATGAGgttaattagcatcgattacactacataa	1852
443	C R V V D D I A T Y E	453
1853	atcatcttataatttagttacagtaatttaatacaaattgattcacatacttataaa	1912
1913	tgaattataattgcattccagGTGAGAAGGGTAGGGCCAAATCGCAACAGGAATTGA	1972
454	V E K G R G Q I A T G I E	466
1973	GTGTTATATGGGGATTATGACGTATCAACAGAAGTAGCAATGGAAAAATTCCAAGAGAT	2032
467	C Y M R D Y D V S T E V A M E K F Q E M	486
2033	GGCTGAGATAGCATGGAGGATGTAATGAAGGAATTCTCGACCAACACCTGTCCTAC	2092
487	A E I A W K D V N E G I L R P T P V S T	506
2093	AGAAATTCTTACTCGCATCTCAATCTGCTCGTATTATAGATGTCACCTACAAAGCACAA	2152
507	E I L T R I L N L A R I I D V T Y K H N	526
2153	TCAAGATGGATACACTCATCCCCAAAAAGTCTAAACCTCACATCATGCTTACTGGT	2212
527	Q D G Y T H P E K V L K P H I I A L L V	546
2213	GGACTCCATTGAGATCaaaaatttagtaatttttaattttaaaatgttacgtaaaaaa	2272
547	D S I E I *	551
2273	taataaaacgtaaaaataatgaagattaaggcgaacgaaccacgtgaggcgaaaaacgttg	2332
2333	agaatggatgtggaaaataagatgaataattttgttatgcataagggtttcacactct	2392
2393	tttgattttggaaatgcattggacatccgcattttgttcgactacactcgaccaatgttgc	2452
2453	gcaagccacggccatggggcaggccacggatggcattttgttgcactgacgtccaaaggcgat	2512
2513	gccccccaggccacggccatgtcactgaccgttgcactgacgtccaaaggcgatggc	2572
2573	aggccacgtccacgt	2588

10/537094

P0206402

8/32

Fig. 8

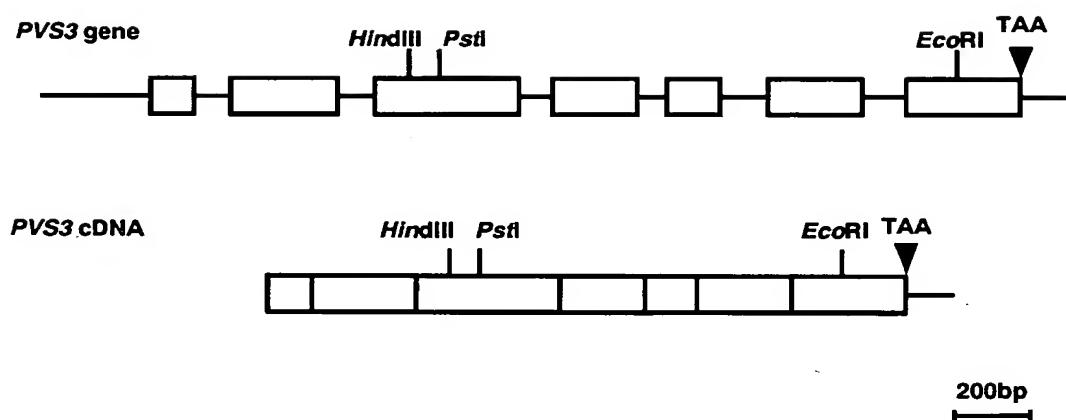


Fig. 9

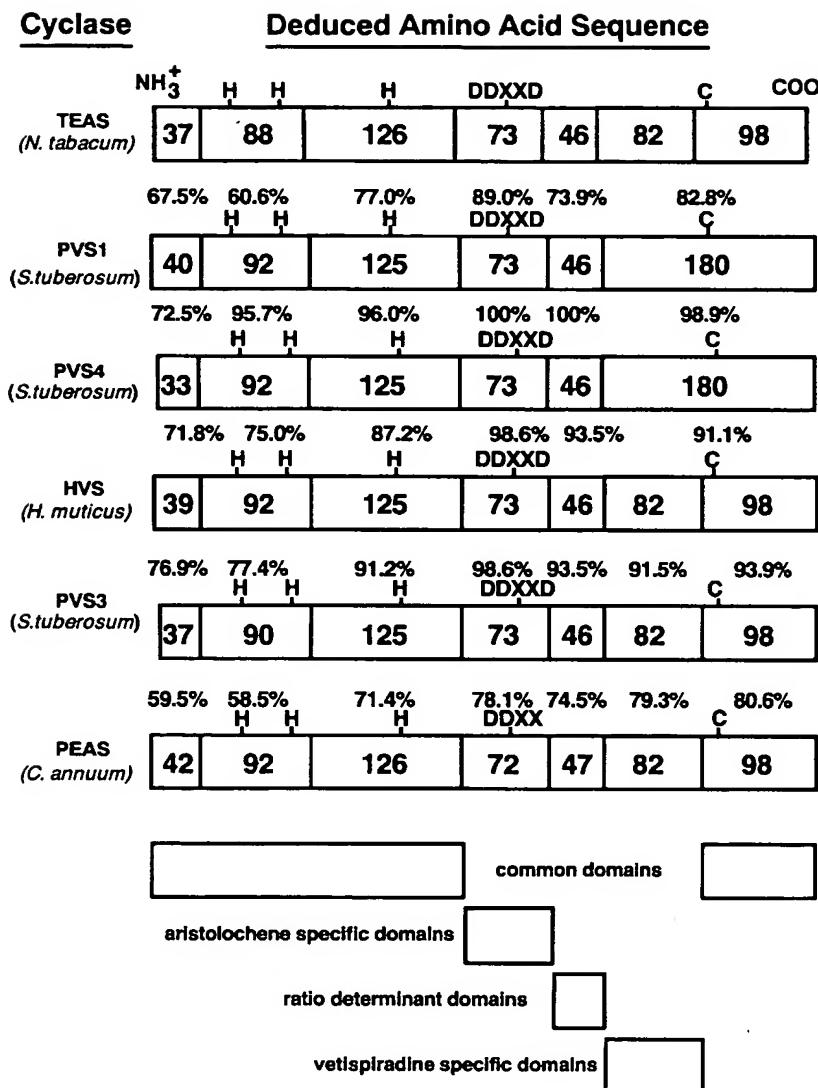
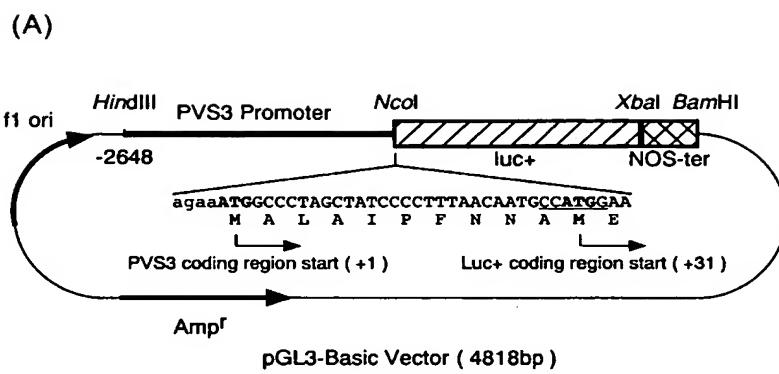


Fig. 1 O



(B)

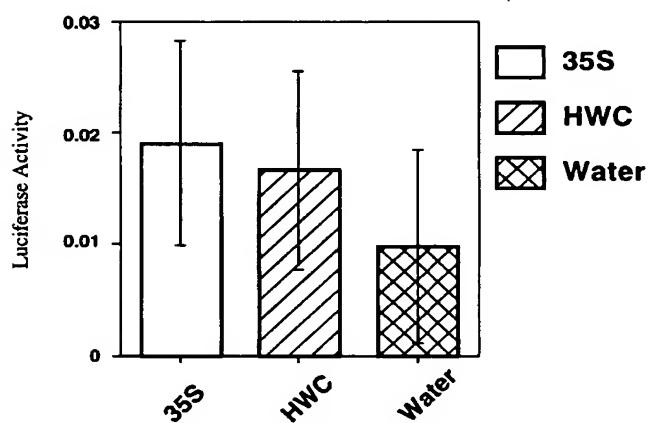
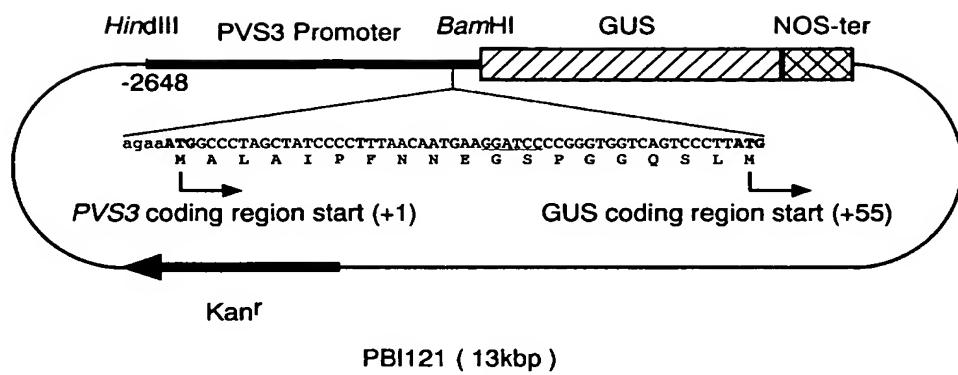


Fig. 1 1



10/53/094

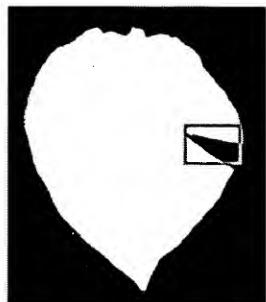
P0206402

12/32

Fig. 1 2

Hours after wounding

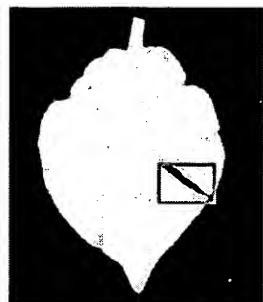
6



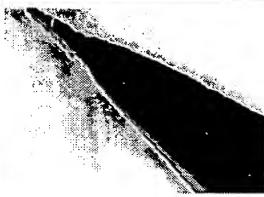
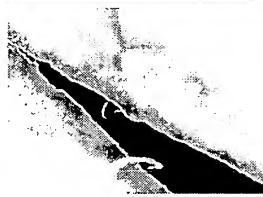
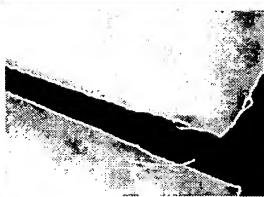
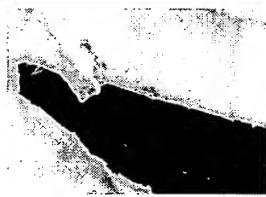
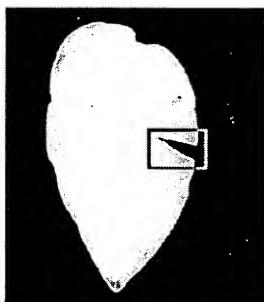
12



24



48



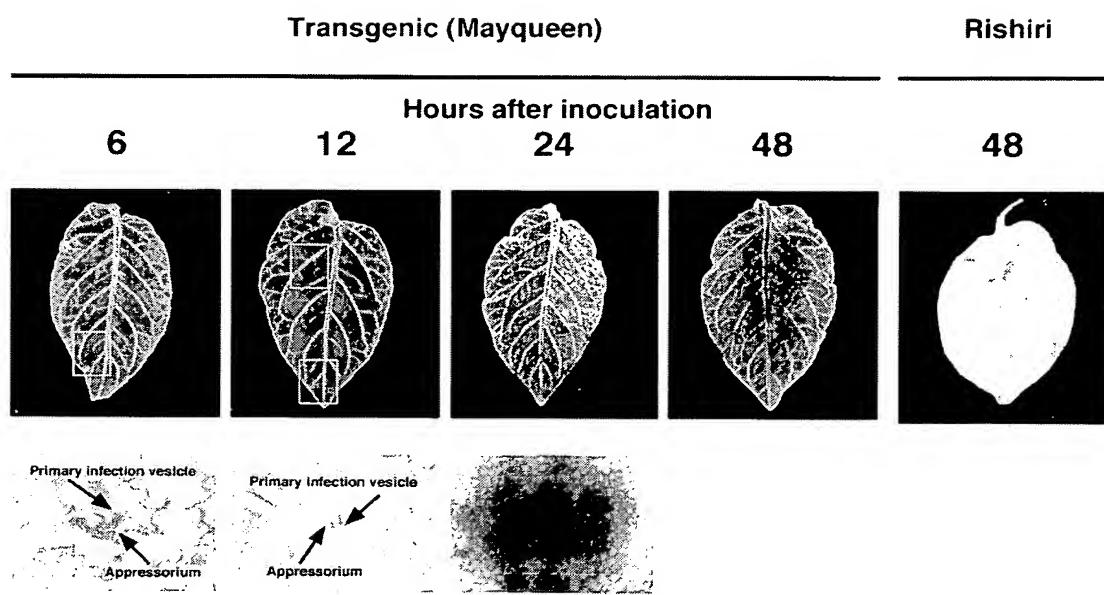
BEST AVAILABLE COPY

10/537094

P0206402

13/32

Fig. 1 3



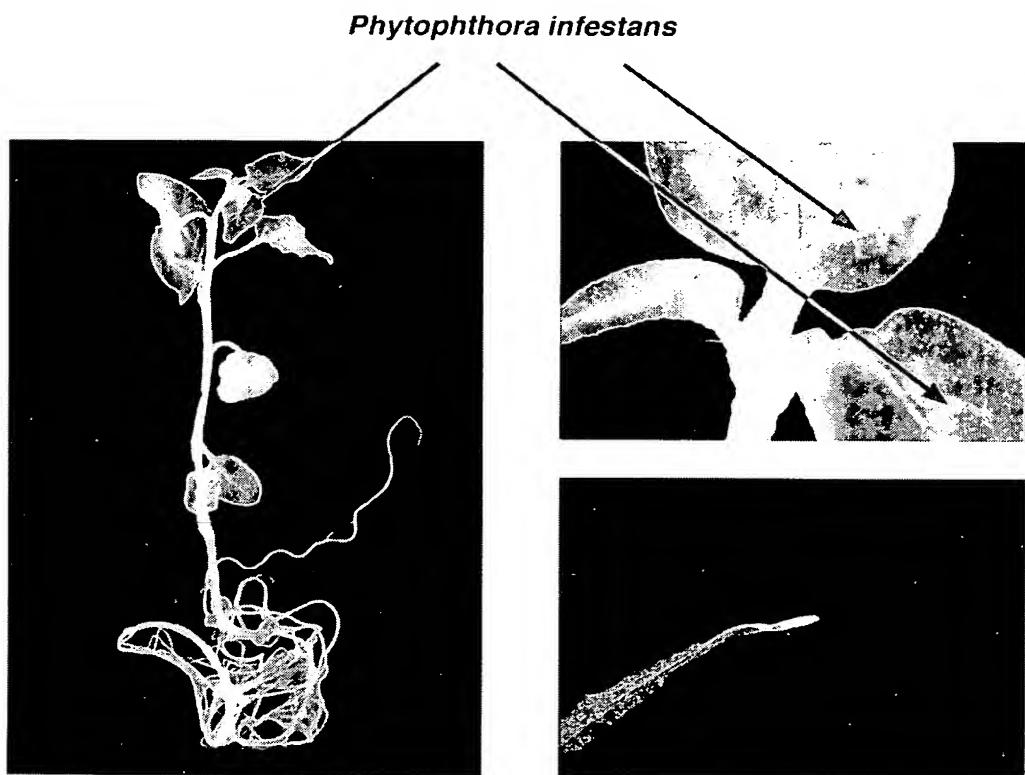
BEST AVAILABLE COPY

10/537094

P0206402

14/32

Fig. 1 4



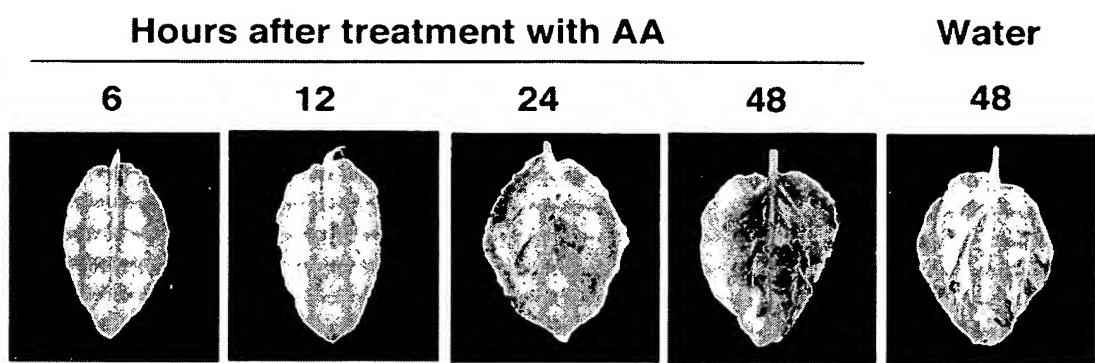
BEST AVAILABLE COPY

10/15 37094

P0206402

15/32

Fig. 1 5



BEST AVAILABLE COPY

YU/53/094

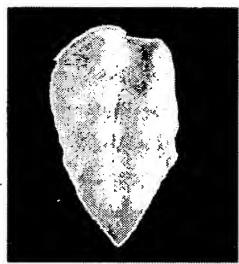
P0206402

16/32

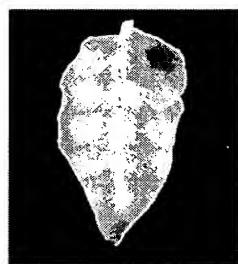
Fig. 1 6

Hours after treatment with  $\text{H}_2\text{O}_2$

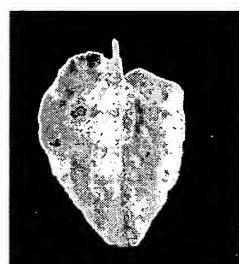
6



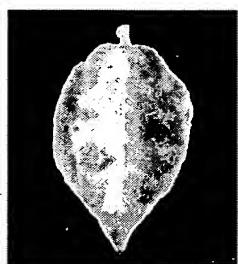
12



24



48



BEST AVAILABLE COPY

10/537094

P0206402

17/32

Fig. 1 7

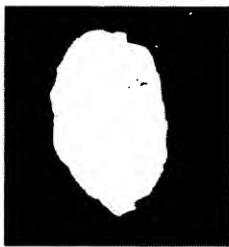
**Hours after treatment with glucose  
glucose-oxidase** and

**6**

**12**

**24**

**48**



**BEST AVAILABLE COPY**

10/537094

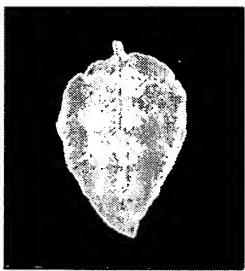
P0206402

18/32

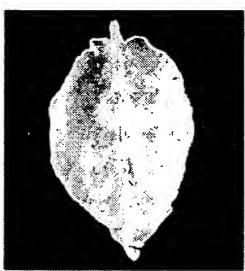
Fig. 1 8

**Hours after treatment with SA**

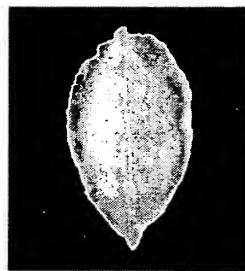
**6**



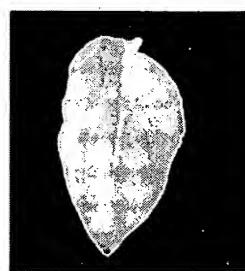
**12**



**24**



**48**



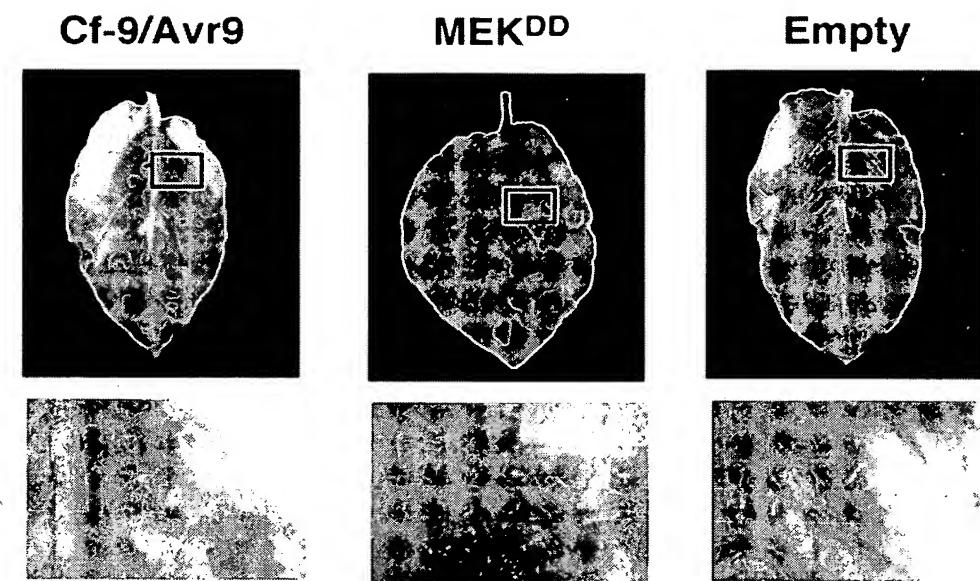
**BEST AVAILABLE COPY**

10/537094

P0206402

19/32

Fig. 1 9



**BEST AVAILABLE COPY**

Fig. 20

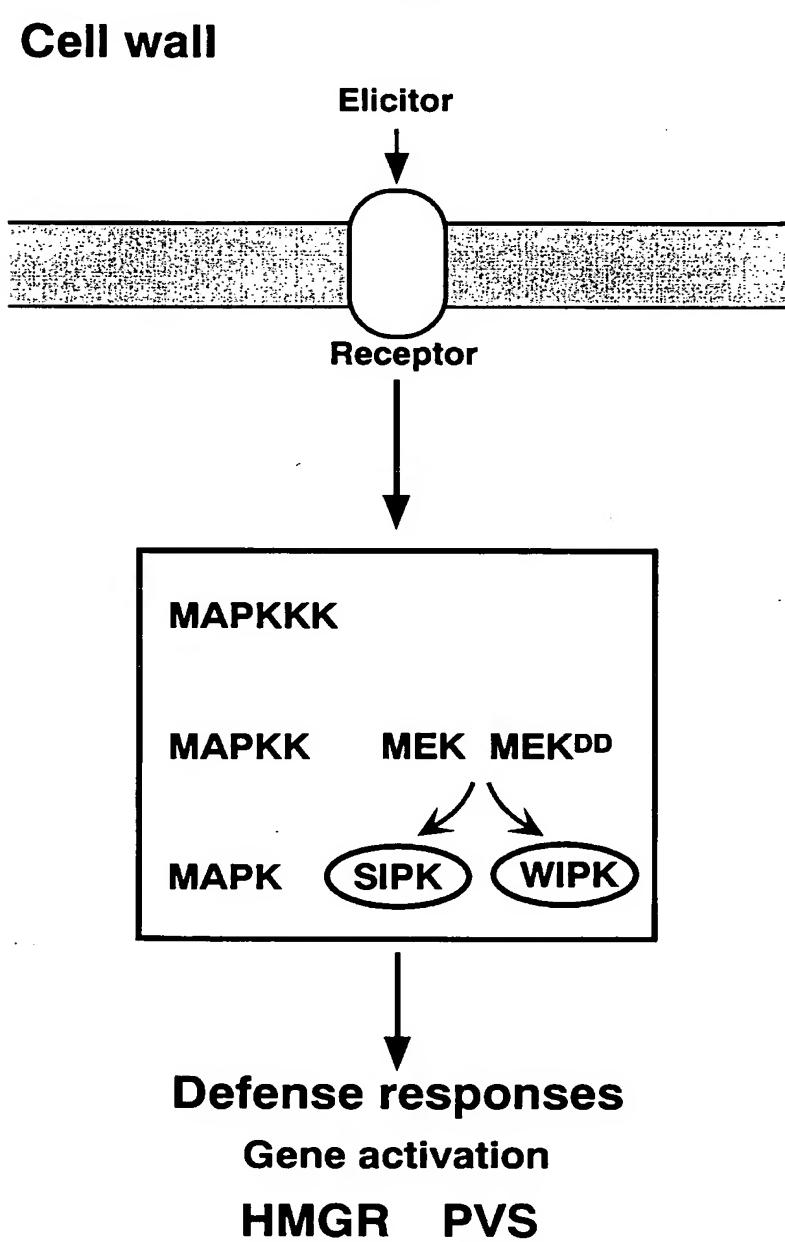


Fig. 2 1

ATGGCGACCTCTTCAACCACCCCCACCAAGCTGCCAACTCCACCTCCGCCGCCATCATC  
CATGCCTCCCTCCCTCTCCGCCGACAACGCAGTCGTCCCCGGCGTGTACTGATTGACCC  
TTCCTCTCCTCAACGTGACGTTGCTTGTGCTGTTCTCTCCCCCTTCTCCAACCTCCGCTC  
CTTCCTCTCCTCATCCTCATCTCCTCCCCGCTTCTACCCCTTACATTCTGAGCTCG  
AGAGGGTTAACGACATCGGTAGTGGCACCGGAGGGTACTGTTACAAGGTTCTACATCGTCCC  
ACTGGCAGACTCTATGCTTGAAAGTTATCTATGGTAACCCTGAGGATTCTGTCCGTCTCCAG  
ATGTGCCGTGAGATCGAGATTCTCCGAGATGTAGACAACCTAACGTCGTAGGTGTCACGA  
TATGTTGAGATCACAAACGGCGAAATCCAAGTCTCTGAGTTCATGGATAAAGGCTCTCTCG  
AAGGGATCCATATCCCTCTCGAACAAACCTCTCCGATCTAACTCGACAGGTTCTCTCCGGC  
CTCTACTACCTCCACAGGCGTAAGATTGTTCACAGAGATATCAAACCTCTAACCTCTAAATC  
AACTCCAGGCGTGAGGTCAAGATTGAGATTGAGATTGGGGTCTCCAGAGTTCTCGCACAAACTAT  
GGATCCTGCAATTCCCTCCGTGGGTACCATCGCTTACATGAGTCCCAGAGAATCAACACAG  
ATCTGAATCAGGACAGTACGACGGATATGCTGGGGACATATGGAGTCTGGGGTGAGCATC  
TTAGAGTTCTACTTGGGAAGGTTCCCTCTGTGGGGAGACAAGGAGACTGGGCCAGCC  
TTATGTGCCCATTTGTATGTCGAGCTCTGAGGGACTCTGCTAGGCAGTGGACGGCCGCGCAGC  
AGGGAGTTCATGCGCTGTGAGGGACTCTGCTAGGCAGTGGACGGCCGCGCAGC  
TCTTGCAGCCATCCCTCATCACCCAGAATAGCCCAGGCACCCACACCGGTCTGCTACTACC  
TCATTGAGTAATCAGGCACATCAATTGTTACCTCCACCTCTCATTTCTCTCTCTTCTT  
CTTGA

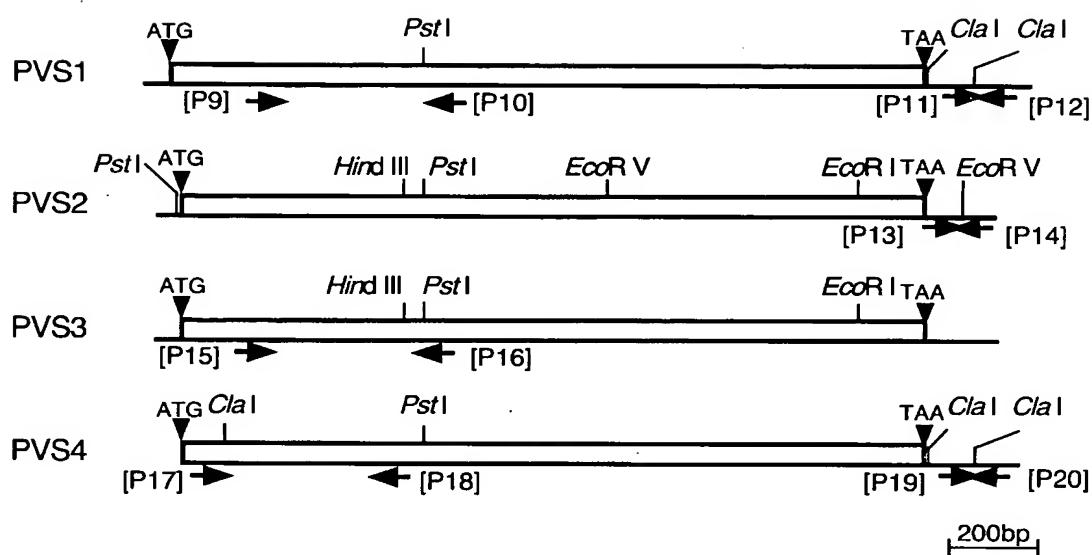
MRPLQPPPAANSTSSAAASSMPPPSSAGQRSPRRRTDLTLPLPQRDVALAVPLPLPPTSAPS  
SSSSSSSSPLPTPLHFSELERVNRIGSTGGTVYKVLHRPTGRLYALKVITYGNHEDSVRLQMCR  
EIEILRDVDNPNVVRCHDMFDHNGEIQVLLFMDKGSLEGIHIPLEQPLSDLTRQVLSGLYYL  
HRRKIVHRDIKPSNLLINSRREVKIADFGSRVLAQTMMDPCNSSVGTIAYMSPERINTDLNHG  
QYDGYAGDIWSLGVSILEFYLGRFPFSVGRQGDWASLMCAICMSQPPEAPPTASREFREFIAC  
CLQRDPARRWTAAQLLRHPFITQNSPGTHTGPATTSLSNQAHQLPPPHFSSSSSS

Fig. 2 2

ATGCGACCTCTCAACCACCCCCACCAAGCTGCCAACTCCACCTCCTCCGCCGCCCATCATC  
CATGCCTCCCTCCCTTCCGCCGGACAACGCAGTCGTCCCCGGCGTGTACTGATTTGACCC  
TTCCTCTCCTCAACGTGACGTTGCTCTGCTGTTCTCTCCCCCTTCCAAACCTCCGCTC  
CTTCCTCTCCTCATCCTCATCTTCCCTCCCCGCTTCTTACACCCCTTACATTCTGTGAGCTCG  
AGAGGGTTAACGATCGCATCGTAGTGGCACCGGAGGGTACTGTTACAAGGTTCTACATCGTCCC  
ACTGGCAGACTCTATGCTTGAAAGTTATCTATGGTAACCATGAGGATTCTGTCCGTCTCCAG  
ATGTGCCGTGAGATCGAGATTCTCCGAGATGTAGACAAACCTAACGCGTAGGTGTACCGA  
TATGTTCGATCACAAACGGCGAAATCCAAGTTCTTGAGTTCATGGATAAAGGCTCTCTCG  
AAGGGATCCATATCCCTCTCGAACAAACCTCTCCGATCTAACACTCGACAGGTTCTCCGGC  
CTCTACTACCTCCACAGCGTAAGATTGTTCACAGAGATATCAAACCTCTAACCTCTTAATC  
AACTCCAGCGTGAGGTCAAGATTGAGATTGAGATTTGGGGTCTCCAGAGTTCTCGCACAAAGATAT  
GGATCCTTGAATGACTCCGTGGGTACCATCGCTTACATGAGTCCCAGAGAATCAACACAG  
ATCTGAATCACGGACAGTACGACGGATATGCTGGGGACATATGGAGTCTGGGGTGGCATC  
TTAGAGTTCTACTTGGGAAGGTTCCCTCTCTGTGGGGAGACAAGGAGACTGGGCCAGCC  
TTATGTGCCATTGTATGTCGAGCCTCTGAGGCACCACCCACTGCTTCCAGGGAGTT  
AGGGAGTTCAATTGCTGTTGAGAGGGATCTGCTAGGCGGTGGACGGCCGCGCAGC  
TCTTGCACATCCCTCATCACCCAGAATAGCCCAGGCACCCACACGGCTCTGCTACTACC  
TCATTGAGTAATCAGGCACATCAATTGTTACCTCCACCTCTCATTTCTTCTTCTTCTT  
CTTGA

MRPLQPPPAANSTSSAAASSMPPPSSAGQRSPRRRTDLTPLPQRDVALAVPLPLPPTSAPS  
SSSSSSSSPLPTPLHFSELERVNIGSGTGGTVYKVLHRPTGRLYALKVITYGNHEDSVRLQMCR  
EIEILRDVDNPNVVRCHDMFDHNGEIQVLLFMDKGSLEGIHIPLEQPLSDLTRQVLSGLYYL  
HRRKIVHRDIKPSNLINSRREVKIADFGVSRLAQMMDPCNDVGTIAYMSPERINTDLNHG  
QYDGYAGDIWSLGVSILEFYLGRFPFSVGRQGDWASLMCAICMSQPPEAPPTASREFIFIAC  
CLQRDPARRWTAAQLLRHPFITQNSPGTHTGPATTSLSNQAHQLPPPHFSSSSSS

Fig. 2 3



P0206402

24/32

Fig. 2 4

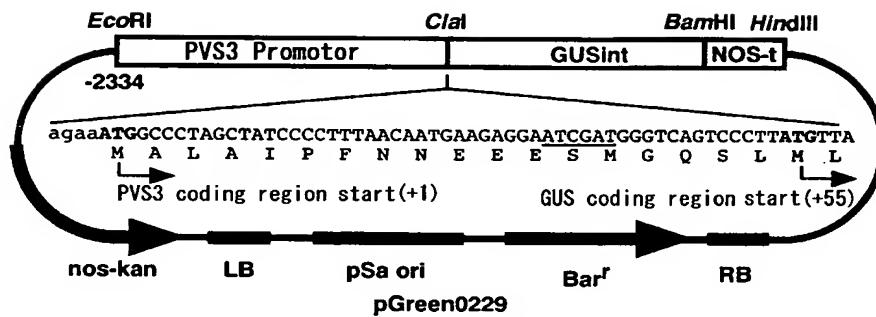
Name	Primer sequence
PVS3-1 (-2334) : F	5'-CGGAATTCTTGTAAATCCTTATTTAGGATTA-3' SEQ ID NO:25
PVS3-2 (-1337) : F	5'-CGGAATTCGTCCGCCCTTACTATTCCCATC-3' SEQ ID NO:26
PVS3-3 (-1287) : F	5'-CGGAATTCTTATAATAGTCACTCATGCT-3' SEQ ID NO:27
PVS3-4 (-1237) : F	5'-CGGAATTCGCTATATTTTTCAAGTTGAAG-3' SEQ ID NO:28
PVS3-5 (-1187) : F	5'-CGGAATTCGACGCCATTGAAGGAAGAAAAA-3' SEQ ID NO:29
PVS3-6 (-1137) : F	5'-CGGAATTCACTTTCTTGGTCCCTTCGAGGC-3' SEQ ID NO:30
PVS3-7 (-1087) : F	5'-CGGAATTCAACAAAAAAAAGACAGACGGT-3' SEQ ID NO:31
PVS3-8 (-836) : F	5'-CGGAATTCGTTATATAGTTTTAAAAAAA-3' SEQ ID NO:32
PVS3-9 (-584) : F	5'-CGGAATTGATTATAACACGATGCGGGTG-3' SEQ ID NO:33
PVS3-10 (-332) : F	5'-CGGAATTCTTACTATATTAACGTGTCCAC-3' SEQ ID NO:34
PVS3 : R	5'-CCATCGATTCCCTTCAATTGTTAAAGGGGA-3' SEQ ID NO:35

164537094

P0206402

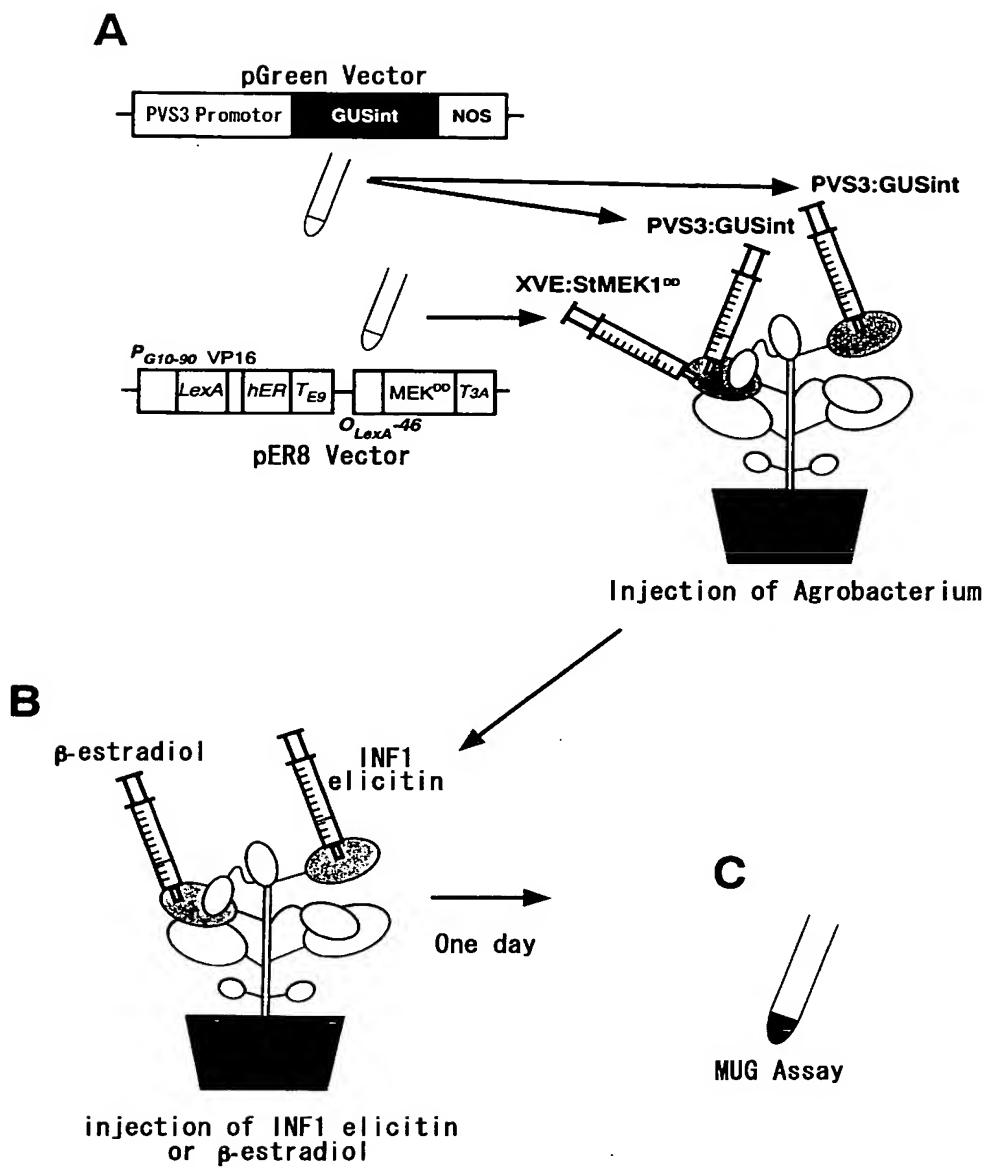
25/32

Fig. 2 5



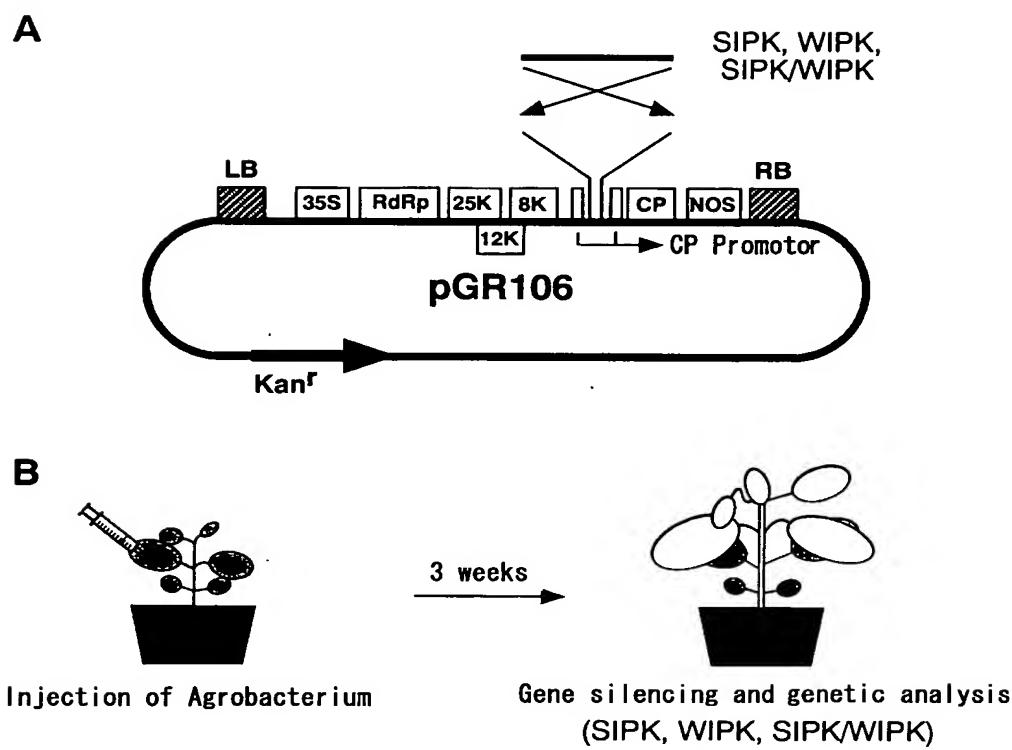
Best Available Copy

Fig. 2 6



Best Available Copy

Fig. 2 7

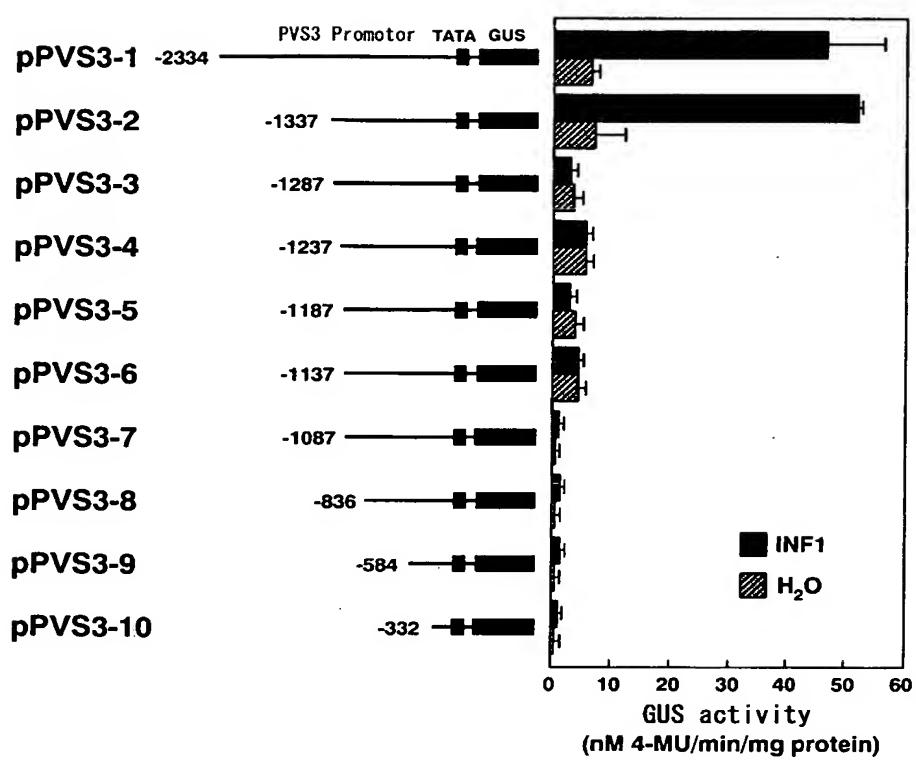


Best Available Copy

P0206402

28/32

Fig. 2 8



10/537094

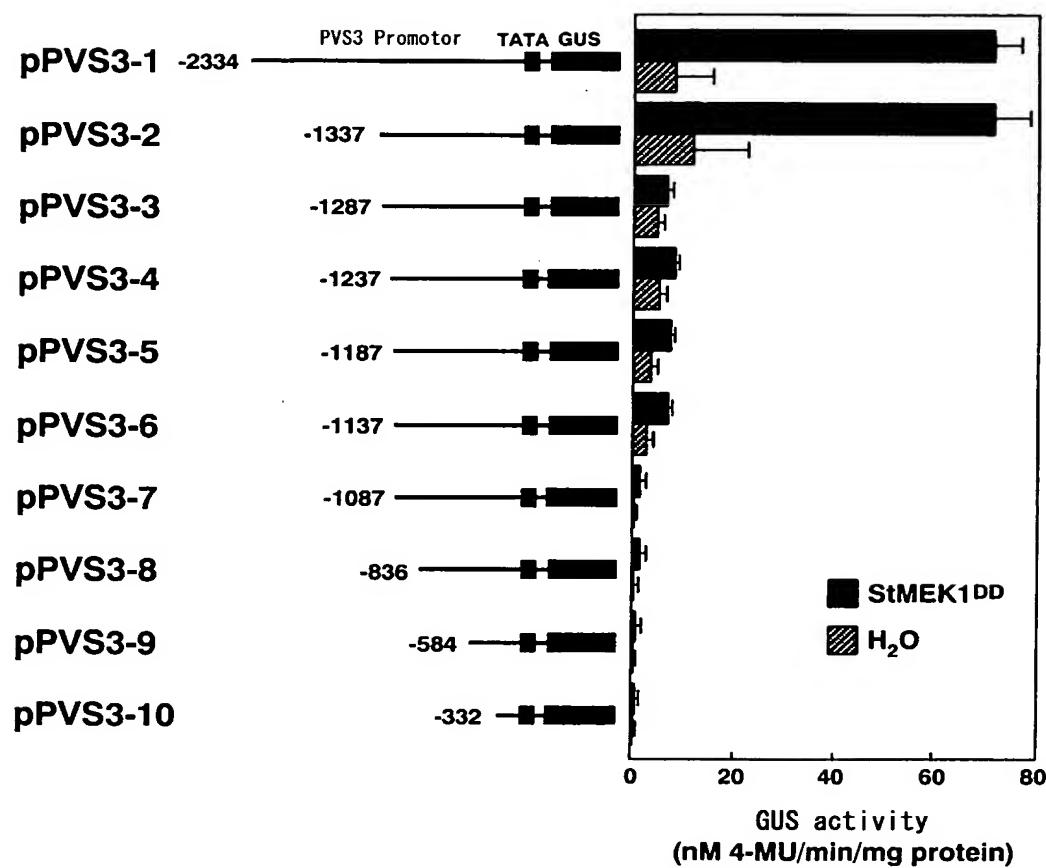
P0206402

29/32

Fig. 2 9

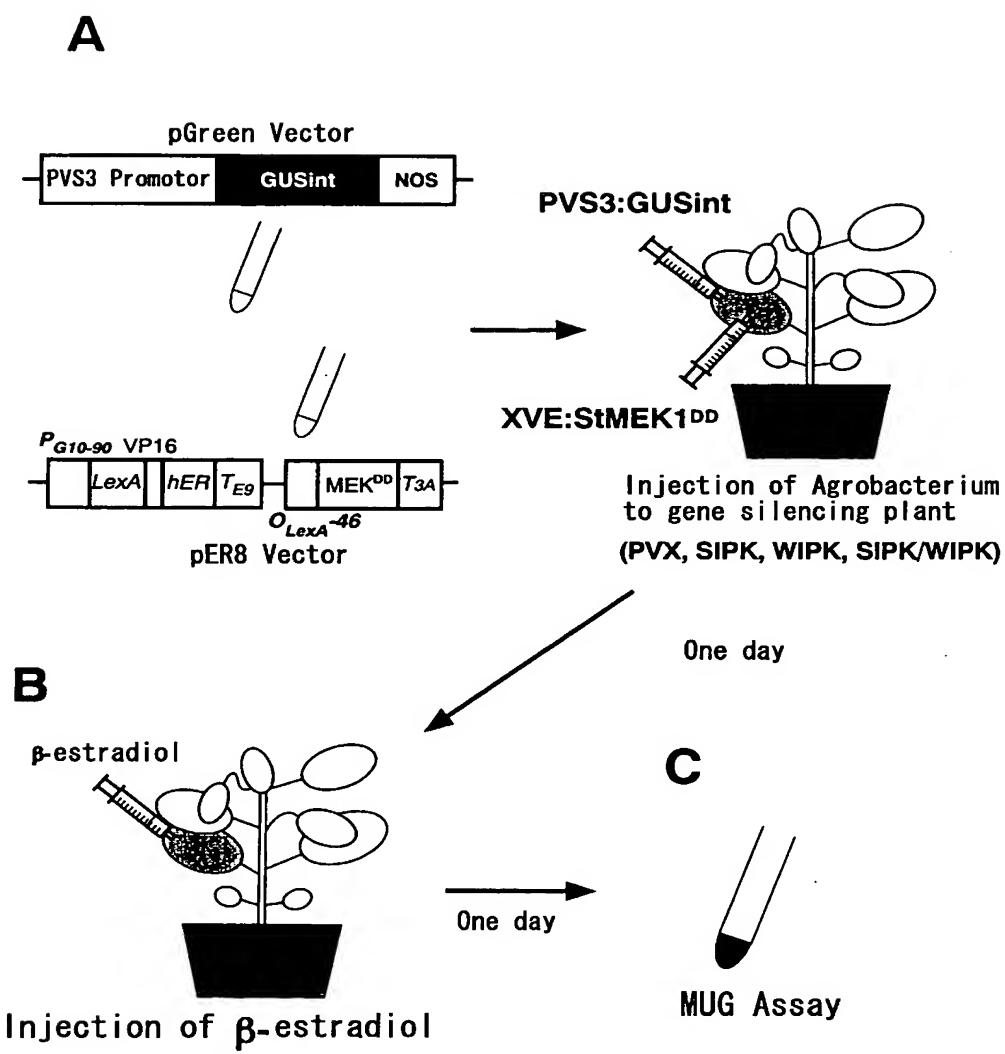
# Best Available Copy

Fig. 3 O



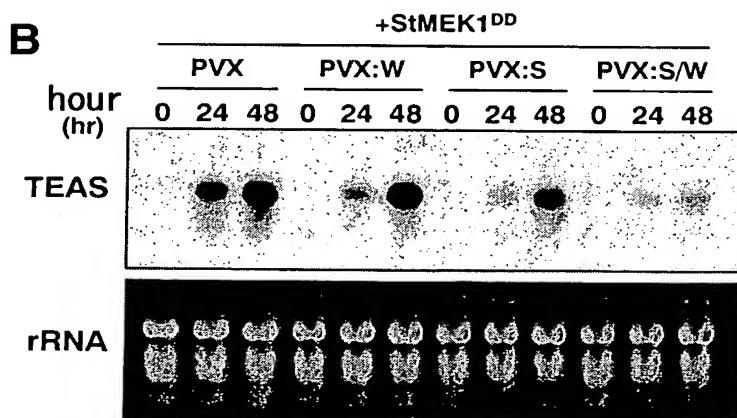
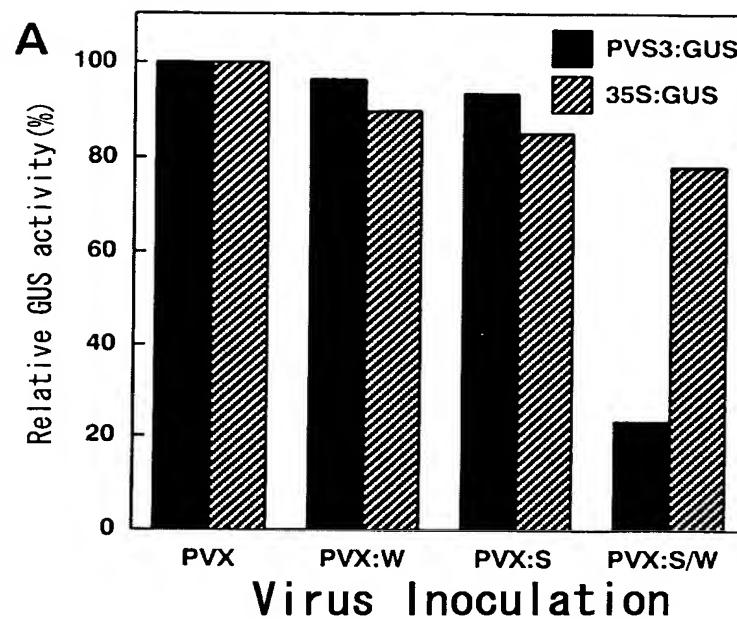
Best Available Copy

Fig. 3 1



Best Available Copy

Fig. 3 2



Rest Available Copy